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## **Tropomyosin Protein (Transcript Variant 1) (Myc-DYKDDDDK Tag)**



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### 1 Image

Overview	Overview	
Quantity:	20 μg	
Target:	Tropomyosin (TPM1)	
Protein Characteristics:	Transcript Variant 1	
Origin:	Human	
Source:	HEK-293 Cells	
Protein Type:	Recombinant	
Purification tag / Conjugate:	This Tropomyosin protein is labelled with Myc-DYKDDDDK Tag.	
Application:	Antibody Production (AbP), Standard (STD)	
Product Details		
Characteristics:	Recombinant human Tropomyosin-1 (TPM1) (transcript variant 1) protein expressed in	
	<ul><li>HEK293 cells.</li><li>Produced with end-sequenced ORF clone</li></ul>	
Purity:	> 80 % as determined by SDS-PAGE and Coomassie blue staining	
Target Details		
Target:	Tropomyosin (TPM1)	
Alternative Name:	Tropomyosin-1 (Tpm1) (TPM1 Products)	
Background:	This gene is a member of the tropomyosin family of highly conserved, widely distributed actin-	
	binding proteins involved in the contractile system of striated and smooth muscles and the	
	cytoskeleton of non-muscle cells. Tropomyosin is composed of two alpha-helical chains	

arranged as a coiled-coil. It is polymerized end to end along the two grooves of actin filaments
and provides stability to the filaments. The encoded protein is one type of alpha helical chain
that forms the predominant tropomyosin of striated muscle, where it also functions in
association with the troponin complex to regulate the calcium-dependent interaction of actin
and myosin during muscle contraction. In smooth muscle and non-muscle cells, alternatively
spliced transcript variants encoding a range of isoforms have been described. Mutations in this
gene are associated with type 3 familial hypertrophic cardiomyopathy.
00.510

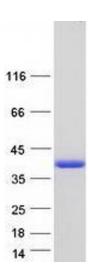
Molecular Weight:	32.5 kDa
NCBI Accession:	NP_001018005
Pathways:	Regulation of Actin Filament Polymerization

#### **Application Details**

Application Notes:	Recombinant human proteins can be used for:
	Native antigens for optimized antibody production
	Positive controls in ELISA and other antibody assays
Comment:	The tag is located at the C-terminal.
Restrictions:	For Research Use only

#### Handling

Concentration:	50 μg/mL
Buffer:	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10 % glycerol.
Storage:	-80 °C
Storage Comment:	Store at -80°C. Thaw on ice, aliquot to individual single-use tubes, and then re-freeze immediately. Only 2-3 freeze thaw cycles are recommended.



#### **Western Blotting**

Image 1. Validation with Western Blot